

$^{11}\text{B}(\alpha,\alpha')$     **1967Na06,2005Bu33**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu		NP A880, 88 (2012)	1-Jan-2011

1967Na06:  $^{11}\text{B}$ ; measured not abstracted; deduced nuclear properties.

1968Ka24:  $^{11}\text{B}(\alpha,\alpha)$  E≈29.0 MeV, measured  $\sigma(E_\alpha, \theta)$ . Deduced reaction mechanism.

1972Ot04:  $^{11}\text{B}(\alpha,\alpha)$  E=4-8 MeV, measured  $\sigma(E, \theta)$ .

1972Ra03:  $^{11}\text{B}(\alpha,\alpha)$  E=2-4 MeV, measured  $\sigma(E, \theta)$ .

1976De34:  $^{11}\text{B}(\alpha,\alpha), (\alpha,\alpha')$  E=24 MeV, measured  $\sigma(\theta)$ .

1987Ab03:  $^{11}\text{B}(\alpha,\alpha)$  E=48.7, 54.1 MeV, measured  $\sigma(\theta)$ . Deduced model parameters.

1991Le33:  $^{11}\text{B}(\alpha,\alpha)$  E=1.5-10 MeV, compiled, reviewed backscattering  $\sigma$  data.

1996Li62,1996Zh36:  $^{11}\text{B}(\alpha,\alpha)$  E=1.0-5.3 MeV, measured  $\sigma(E, \theta)$ . Deduced resonances.

2005Bu33:  $^{11}\text{B}(\alpha,\alpha), (\alpha,\alpha')$ , E=40, 50 MeV; measured  $E_\alpha$ , elastic and inelastic  $\sigma(\theta)$ ; deduced optical model parameters.  $^{11}\text{B}$  deduced spectroscopic factors, deformation parameters.

2008Ka44:  $^{11}\text{B}(\alpha,\alpha)$ , E=388 MeV, measured  $E_\alpha$ ,  $I_\alpha$ . Deduced  $\sigma(\theta)$ ,  $B(E0)$ . Comparison with DWBA calculations.

 $^{11}\text{B}$  Levels

E(level)	Comments
0	$\beta_2 = -0.60$ 15 ( <a href="#">2005Bu33</a> ).
$2.12 \times 10^3$	E(level): populated states from ( <a href="#">1967Na06</a> ).
$4.44 \times 10^3$	
$5.02 \times 10^3$	
$6.74 \times 10^3$	E(level): Unresolved.
$6.79 \times 10^3$	E(level): Unresolved.
$7.29 \times 10^3$	
$8.56 \times 10^3$	